BRUHATH BANGALORE MAHANAGARA PALIKE
BYATARAYANAPURA DIVISION

Name of the work: Improvement to Drains and Asphalting to Road at Defence Layout and Fathima Layout Main Road and Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division.

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
18	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17)										
	Chalukya layout										
	Rcc Drain										
	1st cross										
	LHS										
	0.00	30.00	L/S	2.00	30.00				0.15	9.00	
	30.00	60.00	L/S	2.00	30.00				0.15	9.00	
	60.00	74.60	L/S	2.00	14.60				0.15	4.38	
								Total		**22.38**	**Sqm**

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
19	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15, I.No.4.31 of PW,P&IWTD SR 2016-17)										
	Chalukya layout										
	Rcc Drain										
	1st cross										
	LHS										
	0.00	30.00	L/S	4.00	30.00				0.60	72.00	
	30.00	60.00	L/S	4.00	30.00				0.60	72.00	
	60.00	74.60	L/S	4.00	14.60				0.60	35.04	
								Total		**179.04**	**Sqm**

TEJUS CONSULTANTS

Consultant

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Assistant Engineer

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
20	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2016-17)										
	Chalukya layout										
	1st cross										
	LHS										
	0.00	30.00	L/S	1.00	30.00			0.90	0.10	2.70	
	30.00	60.00	L/S	1.00	30.00			0.90	0.10	2.70	
	60.00	74.60	L/S	1.00	14.60			0.90	0.10	1.31	
	Side Walls										
	Chalukya layout										
	1st cross										
	LHS										
	0.00	30.00	L/S	2.00	30.00			0.15	0.60	5.40	
	30.00	60.00	L/S	2.00	30.00			0.15	0.60	5.40	
	60.00	74.60	L/S	2.00	14.60			0.15	0.60	2.63	
								Total		**20.14**	**Cum**

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
21	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500									
							Unit weight of steel / meter			
	Chalukya layout									
	New Drain									
	10 mm main U bars									
	inner main bars	1	583.0	1.90			0.617		683.45	
	outer main bars	1	583.0	2.30			0.617		827.34	
	Distribution bars									
	8mm Dia bars									
	inner main bars	1	7.0	174.6			0.395		482.77	
	outer main bars	1	8.0	174.6			0.395		551.74	
									2545.29	
							Total		**2.55**	**Tonne**

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
22	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)										
	Chalukya layout										
	1st cross										
	LHS										
	0.00	30.00	L/S	1.00	30.00			0.90		27.00	
	30.00	60.00	L/S	1.00	30.00			0.90		27.00	
	60.00	74.60	L/S	1.00	14.60			0.90		13.14	
	1st Main										
	LHS										
	0.00	30.00	L/S	1.00	30.00			0.90		27.00	
	30.00	60.00	L/S	1.00	30.00			0.90		27.00	
	60.00	100.00	L/S	1.00	40.00			0.90		36.00	
								Total		**157.14**	**Sqm**

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
23	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)										
	Chalukya layout										
	New Culvert										
				1.00	10.00			1.50		15.00	
				1.00	10.00			1.50		15.00	
								Total		**30.00**	**Sqm**
24	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) ((P.No.177, I.No.22.6.1 of PW,P&IWTD SR 2016-17)										
	Manjunath layout										
	0.00	15.00		1.00	15.00	4.00	4.50	4.25	0.10	6.38	
	15.00	30.00		1.00	15.00	4.50	4.50	4.50	0.10	6.75	
	30.00	45.00		1.00	15.00	4.50	5.40	4.95	0.10	7.43	
	45.00	60.00		1.00	15.00	5.40	4.85	5.13	0.10	7.69	
	60.00	75.00		1.00	15.00	4.85	4.80	4.83	0.10	7.24	
	75.00	90.00		1.00	15.00	4.80	4.00	4.40	0.10	6.60	
	90.00	105.00		1.00	15.00	4.00	3.30	3.65	0.10	5.48	
	105.00	120.00		1.00	15.00	3.30	4.00	3.65	0.10	5.48	
	120.00	135.00		1.00	15.00	4.00	4.00	4.00	0.10	6.00	
	135.00	150.00		1.00	15.00	4.00	4.20	4.10	0.10	6.15	
	150.00	165.00		1.00	15.00	4.20	4.50	4.35	0.10	6.53	
	165.00	180.00		1.00	15.00	4.50	4.50	4.50	0.10	6.75	
	180.00	195.00		1.00	15.00	4.50	4.50	4.50	0.10	6.75	
	195.00	200.00		1.00	5.00	4.50	4.90	4.70	0.10	2.35	
	200.00	215.00		1.00	15.00	4.90	5.70	5.30	0.10	7.95	
	215.00	230.00		1.00	15.00	5.70	4.50	5.10	0.10	7.65	

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	230.00	245.00		1.00	15.00	4.50	4.80	4.65	0.10	6.98	
	245.00	260.00		1.00	15.00	4.80	4.20	4.50	0.10	6.75	
	260.00	275.00		1.00	15.00	4.20	3.50	3.85	0.10	5.78	
	Cross Road										
	0.00	10.00		1.00	10.00	3.40	2.80	3.10	0.10	3.10	
	10.00	20.00		1.00	10.00	2.80	3.50	3.15	0.10	3.15	
	20.00	28.00		1.00	8.00	3.50	3.60	3.55	0.10	2.84	
	Chalukya layout										
	1st cross										
	LHS										
	0.00	30.00		1.00	30.00	5.00	4.00	4.50	0.10	13.50	
	30.00	60.00		1.00	30.00	4.00	5.20	4.60	0.10	13.80	
	60.00	74.60		1.00	14.60	5.20	5.50	5.35	0.10	7.81	
	1st Main										
	LHS										
	0.00	30.00		1.00	30.00	6.80	5.50	6.15	0.10	18.45	
	30.00	60.00		1.00	30.00	5.50	4.20	4.85	0.10	14.55	
	60.00	100.00		1.00	40.00	4.20	6.00	5.10	0.10	20.40	
								Total		**220.25**	**Cum**

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
25	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.										
	Manjunath layout										
	0.00	15.00		1.00	15.00	4.00	4.50	4.25		63.75	
	15.00	30.00		1.00	15.00	4.50	4.50	4.50		67.50	
	30.00	45.00		1.00	15.00	4.50	5.40	4.95		74.25	
	45.00	60.00		1.00	15.00	5.40	4.85	5.13		76.88	
	60.00	75.00		1.00	15.00	4.85	4.80	4.83		72.38	
	75.00	90.00		1.00	15.00	4.80	4.00	4.40		66.00	
	90.00	105.00		1.00	15.00	4.00	3.30	3.65		54.75	
	105.00	120.00		1.00	15.00	3.30	4.00	3.65		54.75	
	120.00	135.00		1.00	15.00	4.00	4.00	4.00		60.00	
	135.00	150.00		1.00	15.00	4.00	4.20	4.10		61.50	
	150.00	165.00		1.00	15.00	4.20	4.50	4.35		65.25	
	165.00	180.00		1.00	15.00	4.50	4.50	4.50		67.50	
	180.00	195.00		1.00	15.00	4.50	4.50	4.50		67.50	
	195.00	200.00		1.00	5.00	4.50	4.90	4.70		23.50	
	200.00	215.00		1.00	15.00	4.90	5.70	5.30		79.50	
	215.00	230.00		1.00	15.00	5.70	4.50	5.10		76.50	
	230.00	245.00		1.00	15.00	4.50	4.80	4.65		69.75	
	245.00	260.00		1.00	15.00	4.80	4.20	4.50		67.50	
	260.00	275.00		1.00	15.00	4.20	3.50	3.85		57.75	
	Cross Road										
	0.00	10.00		1.00	10.00	3.40	2.80	3.10		31.00	
	10.00	20.00		1.00	10.00	2.80	3.50	3.15		31.50	
	20.00	28.00		1.00	8.00	3.50	3.60	3.55		28.40	
	Chalukya layout										
	1st cross										
	LHS										
	0.00	30.00		1.00	30.00	5.00	4.00	4.50		135.00	
	30.00	60.00		1.00	30.00	4.00	5.20	4.60		138.00	
	60.00	74.60		1.00	14.60	5.20	5.50	5.35		78.11	
	1st Main										
	LHS										
	0.00	30.00		1.00	30.00	6.80	5.50	6.15		184.50	
	30.00	60.00		1.00	30.00	5.50	4.20	4.85		145.50	
	60.00	100.00		1.00	40.00	4.20	6.00	5.10		204.00	
								Total		**2202.51**	**Sqm**

Consultant

Assistant Engineer

29/6/18

Assistant Executive Engineer

29/06/18

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
26	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)										
	Manjunath layout										
	0.00	15.00		1.00	15.00	4.00	4.50	4.25	0.25	15.94	
	15.00	30.00		1.00	15.00	4.50	4.50	4.50	0.25	16.88	
	30.00	45.00		1.00	15.00	4.50	5.40	4.95	0.25	18.56	
	45.00	60.00		1.00	15.00	5.40	4.85	5.13	0.25	19.22	
	60.00	75.00		1.00	15.00	4.85	4.80	4.83	0.25	18.09	
	75.00	90.00		1.00	15.00	4.80	4.00	4.40	0.25	16.50	
	90.00	105.00		1.00	15.00	4.00	3.30	3.65	0.25	13.69	
	105.00	120.00		1.00	15.00	3.30	4.00	3.65	0.25	13.69	
	120.00	135.00		1.00	15.00	4.00	4.00	4.00	0.25	15.00	
	135.00	150.00		1.00	15.00	4.00	4.20	4.10	0.25	15.38	
	150.00	165.00		1.00	15.00	4.20	4.50	4.35	0.25	16.31	
	165.00	180.00		1.00	15.00	4.50	4.50	4.50	0.25	16.88	
	180.00	195.00		1.00	15.00	4.50	4.50	4.50	0.25	16.88	
	195.00	200.00		1.00	5.00	4.50	4.90	4.70	0.25	5.88	
	200.00	215.00		1.00	15.00	4.90	5.70	5.30	0.25	19.88	
	215.00	230.00		1.00	15.00	5.70	4.50	5.10	0.25	19.13	
	230.00	245.00		1.00	15.00	4.50	4.80	4.65	0.25	17.44	
	245.00	260.00		1.00	15.00	4.80	4.20	4.50	0.25	16.88	
	260.00	275.00		1.00	15.00	4.20	3.50	3.85	0.25	14.44	
	Cross Road										
	0.00	10.00		1.00	10.00	3.40	2.80	3.10	0.25	7.75	
	10.00	20.00		1.00	10.00	2.80	3.50	3.15	0.25	7.88	
	20.00	28.00		1.00	8.00	3.50	3.60	3.55	0.25	7.10	
	Road Portion										
	Bad Reaches			6.00	1.50			1.50	0.23	3.11	
				8.00	1.80			1.80	0.23	5.96	
				7.00	2.00			2.00	0.23	6.44	
								Total		**344.86**	**Cum**

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
27	KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305										
	Chalukya layout										
	1st cross										
	LHS										
	0.00	30.00		1.00	30.00	5.00	4.00	4.50	0.15	20.25	
	30.00	60.00		1.00	30.00	4.00	5.20	4.60	0.15	20.70	
	60.00	74.60		1.00	14.60	5.20	5.50	5.35	0.15	11.72	
	1st Main										
	LHS										
	0.00	30.00		1.00	30.00	6.80	5.50	6.15	0.10	18.45	
	30.00	60.00		1.00	30.00	5.50	4.20	4.85	0.10	14.55	
	60.00	100.00		1.00	40.00	4.20	6.00	5.10	0.10	20.40	
								Total		**106.07**	**Cum**

TEAUS CONSULTANTS

Consultant

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

13/6/18

Assistant Engineer

13/6/18

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
28	KSRRB M-400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)									
	Road Portion									
	Bad Reaches		6.00	1.50			1.50	0.23	3.11	
			8.00	1.80			1.80	0.23	5.96	
			7.00	2.00			2.00	0.23	6.44	
							Total		**15.51**	Cum

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
29	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)									
	Road Portion									
	Bad Reaches		6.00	1.50			1.50		13.50	
			8.00	1.80			1.80		25.92	
			7.00	2.00			2.00		28.00	
							Total		**67.42**	**Sqm**

Consultant

Assistant Engineer 19/6/18

Assistant Executive Engineer 19/06/18

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
30	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)										
	5th Cross MSR Ramaiah North City										
	0.00	30.00		1.00	30.00	6.35	4.70	5.53		165.75	
	30.00	60.00		1.00	30.00	4.70	4.40	4.55		136.50	
	60.00	90.00		1.00	30.00	4.40	5.00	4.70		141.00	
	90.00	120.00		1.00	30.00	5.00	5.65	5.33		159.75	
	120.00	150.00		1.00	30.00	5.65	4.95	5.30		159.00	
	150.00	180.00		1.00	30.00	4.95	5.95	5.45		163.50	
	180.00	193.00		1.00	13.00	5.95	5.80	5.88		76.38	
	Deduct Prime Coat									-67.42	
								Total		934.46	Sqm

Consultant

Assistant Engineer

19/6/18

Assistant Executive Engineer

19/06/18

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Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
31	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)										
	5th Cross MSR Ramaiah North City										
	0.00	30.00		1.00	30.00	6.35	4.70	5.53		165.75	
	30.00	60.00		1.00	30.00	4.70	4.40	4.55		136.50	
	60.00	90.00		1.00	30.00	4.40	5.00	4.70		141.00	
	90.00	120.00		1.00	30.00	5.00	5.65	5.33		159.75	
	120.00	150.00		1.00	30.00	5.65	4.95	5.30		159.00	
	150.00	180.00		1.00	30.00	4.95	5.95	5.45		163.50	
	180.00	193.00		1.00	13.00	5.95	5.80	5.88		76.38	
								Total		1001.88	Sqm

Consultant

Assistant Engineer

Assistant Executive Engineer

galuru Mahanagara Palike

ayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & P

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Roads at Manjunatha Layout 1st , 2nd,3rd and 4th Cross in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
32	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)										
	5th Cross MSR Ramaiah North City										
	0.00	30.00		1.00	30.00	6.35	4.70	5.53	0.04	6.63	
	30.00	60.00		1.00	30.00	4.70	4.40	4.55	0.04	5.46	
	60.00	90.00		1.00	30.00	4.40	5.00	4.70	0.04	5.64	
	90.00	120.00		1.00	30.00	5.00	5.65	5.33	0.04	6.39	
	120.00	150.00		1.00	30.00	5.65	4.95	5.30	0.04	6.36	
	150.00	180.00		1.00	30.00	4.95	5.95	5.45	0.04	6.54	
	180.00	193.00		1.00	13.00	5.95	5.80	5.88	0.04	3.06	
								Total		40.08	Cum

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Road at Defence Layout and Fathima Layout Main Road and Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
3	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3										
	Fatima Layout										
	3rd Main										
	LHS										
	0.00	6.90	L/S	1.00	6.90			0.60	0.60	2.48	
	12.60	38.10	L/S	1.00	25.50			0.60	0.55	8.42	
	3rd Cross										
	RHS										
	0.00	30.00	R/S	1.00	30.00			0.60	0.60	10.80	
	30.00	60.00	R/S	1.00	30.00			0.60	0.60	10.80	
	60.00	90.00	R/S	1.00	30.00			0.60	0.60	10.80	
	90.00	121.00	R/S	1.00	31.00			0.60	0.60	11.16	
	LHS										
	0.00	30.00	L/S	1.00	30.00			0.60	0.60	10.80	
	30.00	60.00	L/S	1.00	30.00			0.60	0.60	10.80	
	60.00	90.00	L/S	1.00	30.00			0.60	0.60	10.80	
	90.00	121.00	L/S	1.00	31.00			0.60	0.60	11.16	
	2nd Cross										
	RHS										
	0.00	30.00	R/S	1.00	30.00			6.00	0.60	108.00	
	30.00	60.00	R/S	1.00	30.00			0.60	0.60	10.80	
	60.00	90.00	R/S	1.00	30.00			0.60	0.60	10.80	
	90.00	120.00	R/S	1.00	30.00			0.60	0.60	10.80	
	120.00	133.00	R/S	1.00	13.00			0.60	0.60	4.68	
	LHS										
	0.00	30.00	L/S	1.00	30.00			0.60	0.60	10.80	
	30.00	60.00	L/S	1.00	30.00			0.60	0.60	10.80	
	60.00	90.00	L/S	1.00	30.00			0.60	0.60	10.80	
	90.00	120.00	L/S	1.00	30.00			0.60	0.60	10.80	
	120.00	136.50	L/S	1.00	16.50			0.60	0.60	5.94	
	1st Cross										
	RHS										
	0.00	30.00	R/S	1.00	30.00			0.60	0.60	10.80	
	30.00	51.00	R/S	1.00	21.00			0.60	0.60	7.56	
	58.00	89.00	R/S	1.00	31.00			0.60	0.60	11.16	
	96.10	131.00	R/S	1.00	34.90			0.60	0.60	12.56	
	138.00	150.00	R/S	1.00	12.00			0.60	0.60	4.32	
	150.00	170.00	R/S	1.00	20.00			0.60	0.60	7.20	
	178.00	191.00	R/S	1.00	13.00			0.60	0.60	4.68	

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Road at Defence Layout and Fathima Layout Main Road and Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	LHS										
	0.00	25.00	L/S	1.00	25.00			0.60	0.60	9.00	
	45.00	75.00	L/S	1.00	30.00			0.60	0.60	10.80	
	75.00	105.00	L/S	1.00	30.00			0.60	0.60	10.80	
	105.00	135.00	L/S	1.00	30.00			0.60	0.60	10.80	
	135.00	165.00	L/S	1.00	30.00			0.60	0.60	10.80	
	165.00	191.00	L/S	1.00	26.00			0.60	0.60	9.36	
	New Drain										
	0.00	10.00		1.00	10.00			1.10	0.85	9.35	
	10.00	16.05		1.00	6.05			1.10	0.85	5.66	
	New SSM Culverts										
	3rd Main										
	LHS										
	6.90	12.60	L/S	1.00	5.70			1.00	0.60	3.42	
	1st Cross										
	RHS										
	51.00	58.00	R/S	1.00	7.00			1.00	0.60	4.20	
	89.00	96.10	R/S	1.00	7.10			1.00	0.60	4.26	
	131.00	138.00	R/S	1.00	7.00			1.00	0.60	4.20	
	170.00	178.00	R/S	1.00	8.00			1.00	0.60	4.80	
	1st Cross entrance										
				1.00	7.00			1.00	0.60	4.20	
				1.00	7.10			1.00	0.60	4.26	
								Total		456.43	Cum

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Road at Defence Layout and Fathima Layout Main Road and Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
4	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5										
	Fatima Layout										
	3rd Main										
	0.00	6.90		1.00	6.90			0.30	0.70	1.45	
	6.90	23.00		1.00	16.10			0.30	0.70	3.38	
	23.00	38.10		1.00	15.10			0.30	0.70	3.17	
	3rd Cross										
	0.00	30.00		1.00	30.00			0.30	0.70	6.30	
	30.00	60.00		1.00	30.00			0.30	0.70	6.30	
	60.00	90.00		1.00	30.00			0.30	0.70	6.30	
	90.00	121.00		1.00	31.00			0.30	0.70	6.51	
	2nd Cross										
	0.00	30.00		1.00	30.00			0.30	0.70	6.30	
	30.00	60.00		1.00	30.00			0.30	0.70	6.30	
	60.00	90.00		1.00	30.00			0.30	0.70	6.30	
	90.00	120.00		1.00	30.00			0.30	0.70	6.30	
	120.00	143.00		1.00	23.00			0.30	0.70	4.83	
	1st Cross										
	0.00	30.00		1.00	30.00			0.30	0.70	6.30	
	30.00	60.00		1.00	30.00			0.30	0.70	6.30	
	60.00	90.00		1.00	30.00			0.30	0.70	6.30	
	90.00	120.00		1.00	30.00			0.30	0.70	6.30	
	120.00	150.00		1.00	30.00			0.30	0.70	6.30	
	150.00	180.00		1.00	30.00			0.30	0.70	6.30	
	180.00	191.00		1.00	11.00			0.30	0.70	2.31	
								Total		**103.55**	Cum

Consultant

Assistant Engineer

28/5/18

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Road at Defence Layout and Fathima Layout Main Road and Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
5	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 160mm outer dia.(P.No.75,sI.No.11.56.4 of PW, P&IWTD SR 2016-17)										
	Fatima Layout										
	3rd Main										
	0.00	6.90		1.00	6.90					6.90	
	6.90	23.00		1.00	16.10					16.10	
	23.00	38.10		1.00	15.10					15.10	
	3rd Cross										
	0.00	30.00		1.00	30.00					30.00	
	30.00	60.00		1.00	30.00					30.00	
	60.00	90.00		1.00	30.00					30.00	
	90.00	121.00		1.00	31.00					31.00	
	2nd Cross										
	0.00	30.00		1.00	30.00					30.00	
	30.00	60.00		1.00	30.00					30.00	
	60.00	90.00		1.00	30.00					30.00	
	90.00	120.00		1.00	30.00					30.00	
	120.00	143.00		1.00	23.00					23.00	
	1st Cross										
	0.00	30.00		1.00	30.00					30.00	
	30.00	60.00		1.00	30.00					30.00	
	60.00	90.00		1.00	30.00					30.00	
	90.00	120.00		1.00	30.00					30.00	
	120.00	150.00		1.00	30.00					30.00	
	150.00	180.00		1.00	30.00					30.00	
	180.00	191.00		1.00	11.00					11.00	
									Total	**493.10**	m

TEJUS CONSULTANTS

Consultant

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

4/6/18

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Road at Defence Layout and Fathima Layout Main Road and Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
6	KSRB 2.6 : Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications.specification. No. KBS 2.10.2(P.No.6,sI.No.2.13 of PW, P&IWTD SR 2016-17)										
	Fatima Layout										
	3rd Main										
	0.00	6.90		1.00	6.90			0.30	0.40	0.83	
	6.90	23.00		1.00	16.10			0.30	0.40	1.93	
	23.00	38.10		1.00	15.10			0.30	0.40	1.81	
	3rd Cross										
	0.00	30.00		1.00	30.00			0.30	0.40	3.60	
	30.00	60.00		1.00	30.00			0.30	0.40	3.60	
	60.00	90.00		1.00	30.00			0.30	0.40	3.60	
	90.00	121.00		1.00	31.00			0.30	0.40	3.72	
	2nd Cross										
	0.00	30.00		1.00	30.00			0.30	0.40	3.60	
	30.00	60.00		1.00	30.00			0.30	0.40	3.60	
	60.00	90.00		1.00	30.00			0.30	0.40	3.60	
	90.00	120.00		1.00	30.00			0.30	0.40	3.60	
	120.00	143.00		1.00	23.00			0.30	0.40	2.76	
	1st Cross										
	0.00	30.00		1.00	30.00			0.30	0.40	3.60	
	30.00	60.00		1.00	30.00			0.30	0.40	3.60	
	60.00	90.00		1.00	30.00			0.30	0.40	3.60	
	90.00	120.00		1.00	30.00			0.30	0.40	3.60	
	120.00	150.00		1.00	30.00			0.30	0.40	3.60	
	150.00	180.00		1.00	30.00			0.30	0.40	3.60	
	180.00	191.00		1.00	11.00			0.30	0.40	1.32	
	Deduct Pipe			-1.00	493.10			0.02		-9.86	
								Total		**49.31**	Cum

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Road at Defence Layout and Fathima Layout Main Road and Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
7	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.(P.No.4, I.No.2.11 of PW, P&IWTD SR 2016-17)										
	Fatima Layout										
	3rd Main										
	0.00	6.90		1.00	6.90			0.30	0.30	0.62	
	6.90	23.00		1.00	16.10			0.30	0.30	1.45	
	23.00	38.10		1.00	15.10			0.30	0.30	1.36	
	3rd Cross										
	0.00	30.00		1.00	30.00			0.30	0.30	2.70	
	30.00	60.00		1.00	30.00			0.30	0.30	2.70	
	60.00	90.00		1.00	30.00			0.30	0.30	2.70	
	90.00	121.00		1.00	31.00			0.30	0.30	2.79	
	2nd Cross										
	0.00	30.00		1.00	30.00			0.30	0.30	2.70	
	30.00	60.00		1.00	30.00			0.30	0.30	2.70	
	60.00	90.00		1.00	30.00			0.30	0.30	2.70	
	90.00	120.00		1.00	30.00			0.30	0.30	2.70	
	120.00	143.00		1.00	23.00			0.30	0.30	2.07	
	1st Cross										
	0.00	30.00		1.00	30.00			0.30	0.30	2.70	
	30.00	60.00		1.00	30.00			0.30	0.30	2.70	
	60.00	90.00		1.00	30.00			0.30	0.30	2.70	
	90.00	120.00		1.00	30.00			0.30	0.30	2.70	
	120.00	150.00		1.00	30.00			0.30	0.30	2.70	
	150.00	180.00		1.00	30.00			0.30	0.30	2.70	
	180.00	191.00		1.00	11.00			0.30	0.30	0.99	
								Total		**44.38**	**Cum**

TEJUS CONSULTANTS

Consultant

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahan

Bytarayanapura Di

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Road at D ayout and Fathima Layout Main Road and Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
32	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)										
	Fatima Layout										
	3rd Main										
	0.00	6.90		1.00	6.90	4.50	4.60	4.55	0.04	1.26	
	6.90	23.00		1.00	16.10	4.60	4.50	4.55	0.04	2.93	
	23.00	38.10		1.00	15.10	4.50	4.65	4.58	0.04	2.76	
	3rd Cross										
	0.00	30.00		1.00	30.00	5.80	5.40	5.60	0.04	6.72	
	30.00	60.00		1.00	30.00	5.40	6.00	5.70	0.04	6.84	
	60.00	90.00		1.00	30.00	6.00	5.20	5.60	0.04	6.72	
	90.00	121.00		1.00	31.00	5.20	5.30	5.25	0.04	6.51	
	2nd Cross										
	0.00	30.00		1.00	30.00	5.70	5.50	5.60	0.04	6.72	
	30.00	60.00		1.00	30.00	5.50	5.40	5.45	0.04	6.54	
	60.00	90.00		1.00	30.00	5.40	5.60	5.50	0.04	6.60	
	90.00	120.00		1.00	30.00	5.60	5.80	5.70	0.04	6.84	
	120.00	143.00		1.00	23.00	5.80	5.20	5.50	0.04	5.06	
	1st Cross										
	0.00	30.00		1.00	30.00	7.30	5.80	6.55	0.04	7.86	
	30.00	60.00		1.00	30.00	5.80	9.30	7.55	0.04	9.06	
	60.00	90.00		1.00	30.00	9.30	8.40	8.85	0.04	10.62	
	90.00	120.00		1.00	30.00	8.40	9.30	8.85	0.04	10.62	
	120.00	150.00		1.00	30.00	9.30	9.30	9.30	0.04	11.16	
	150.00	180.00		1.00	30.00	9.30	9.40	9.35	0.04	11.22	
	180.00	191.00		1.00	11.00	9.40	9.20	9.30	0.04	4.09	
	MS Ramaiah North City										
	Main Road										
	0.00	30.00		1.00	30.00	12.05	9.00	10.53	0.04	12.63	
	30.00	60.00		1.00	30.00	9.00	8.40	8.70	0.04	10.44	
	60.00	90.00		1.00	30.00	8.40	8.65	8.53	0.04	10.23	
	90.00	120.00		1.00	30.00	8.65	8.95	8.80	0.04	10.56	
	120.00	150.00		1.00	30.00	8.95	8.70	8.83	0.04	10.59	
	150.00	180.00		1.00	30.00	8.70	8.20	8.45	0.04	10.14	
	180.00	210.00		1.00	30.00	8.20	8.55	8.38	0.04	10.05	
	210.00	240.00		1.00	30.00	8.55	9.05	8.80	0.04	10.56	

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Road at Defence Layout and Fathima Layout Main Road and Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	240.00	270.00		1.00	30.00	9.05	9.00	9.03	0.04	10.83	
	270.00	300.00		1.00	30.00	9.00	8.70	8.85	0.04	10.62	
	300.00	330.00		1.00	30.00	8.70	8.20	8.45	0.04	10.14	
	330.00	360.00		1.00	30.00	8.20	7.70	7.95	0.04	9.54	
	360.00	382.00		1.00	22.00	7.70	6.65	7.18	0.04	6.31	
	Cross Road 1 (Left)										
	0.00	22.00		1.00	22.00	8.90	7.50	8.20	0.04	7.22	
	Cross Road 2 (Left)										
	0.00	10.00		1.00	10.00	11.30	10.05	10.68	0.04	4.27	
	10.00	21.40		1.00	11.40	10.05	9.20	9.63	0.04	4.39	
								Total		**278.65**	**Cum**

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : - Improvement to Drains and Asphalting to Road at Defence Layout and Fathima Layout Main Road and Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
34	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.48, I. 9.4) PRED.SR 2012-13									
	Sarai palya HP Govt School Opp Temple									
			1.00						1.00	
	Sarai palya 2nd cross Poojamma Temple									
			1.00						1.00	
	Sarai palya Vidya sagar St javaria School									
			1.00						1.00	
	Sarai palya Opp majjid									
			1.00						1.00	
							Total		**4.00**	**each BW**

Consultant

Assistant Engineer

Assistant Executive Engineer

BRUHATH BANGALORE MAHANAGARA PALIKE
BYATARAYANAPURA DIVISION

Name of the work: Improvement to Roads and Drains at Bharathnagara, Baloon Factory Road and Abu Bakker Masjid Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division.

Bruhat Bengaluru Mahanagara Palike										
Bytarayanapura Division										
Job Code :- 006-18-000097.										
Name of Agency :- Benaka Developers & Project Pvt.Ltd.										
Bill No :-1st & Part Bill										
Name Of work : - Improvement to Drains and Asphalting to Road at Defence Layout and Fathima Layout Main Road and Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division										
BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
67	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.15 item No.3.4.2 b PRED SR 2012-13. - 75 mm dia 6 KSC PVC pipe									
	Sarai palya HP Govt School Opp Temple									
				1.00	65.00				65.00	
	Sarai palya 2nd cross Poojamma Temple									
				1.00	60.00				60.00	
	Sarai palya Vidya sagar St javaria School									
				1.00	55.00				55.00	
								Total	**180.00**	**Rmtr**

TEJUS CONSULTANTS

Consultant

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Assistant Engineer

8/16/18

Assistant Executive Engineer

28/6/18

Bruhat Bengaluru Mahanagara Palike										
Bytarayanapura Division										
Job Code :- 006-18-000097.										
Name of Agency :- Benaka Developers & Project Pvt.Ltd.										
Bill No :-1st & Part Bill										
Name Of work : - Improvement to Drains and Asphalting to Road at Defence Layout and Fathima Layout Main Road and Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division										
BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
68	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs Page No. 3 / Item No. 1.6 / PRED SR 2012-13									
	Qty. Vide Item No. 66								81.00	
							Total		81.00	Cum

EJUS CONSULTANTS

Consultant

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Assistant Engineer

8/6/18

Assistant Executive Engineer

8/6/18

Bruhat Bengaluru Mahanagara Palike										
Bytarayanapura Division										
Job Code :- 006-18-000097.										
Name of Agency :- Benaka Developers & Project Pvt.Ltd.										
Bill No :-1st & Part Bill										
Name Of work : - Improvement to Drains and Asphalting to Road at Defence Layout and Fathima Layout Main Road and Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division										
BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
69	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 P. 92 / I.13.37 PWD SR - 2016-17									
	Sarai palya HP Govt School Opp Temple									
				2.00					2.00	
	Sarai palya 2nd cross Poojamma Temple									
				2.00					2.00	
	Sarai palya Vidya sagar St javaria School									
				2.00					2.00	
							Total		**6.00**	**Each**

TEJUS CONSULTANTS

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

8/6/18

Consultant

Assistant Engineer

Assistant Executive Engineer

08/06/18

Bruhat Bengaluru Mahanagara Palike										
Bytarayanapura Division										
Job Code :- 006-18-000097.										
Name of Agency :- Benaka Developers & Project Pvt.Ltd.										
Bill No :-1st & Part Bill										
Name Of work : - Improvement to Roads and Drains at Bharathnagara, Baloon Factory Road and Abu Bakker Masjid Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division										
34	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.48, I. 9.4) PRED.SR 2012-13									
	Thanisandra temple road									
				1.00					1.00	
	Thanisandra Ashwath Nagar									
				1.00					1.00	
	Thanisandra 900ft									
				1.00					1.00	
	Thanisandra 1000ft									
				1.00					1.00	
	Maruthi Samill Road									
				1.00					1.00	
	Rachenahalli village									
				1.00					1.00	
	Rachenahalli memos restaurant									
				1.00					1.00	
	Samill furniture Shop									
				1.00					1.00	
								Total	**8.00**	**each BW**

TEJUS CONSULTANTS
Consultant

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Assistant Engineer

Assistant Executive Engineer

196

Bruhat Bengaluru Mahanagara Palike												
Bytarayanapura Division												
Job Code :- 006-18-000097.												
Name of Agency :- Benaka Developers & Project Pvt.Ltd.												
Bill No :-1st & Part Bill												
Name Of work : - Improvement to Roads and Drains at Bharathnagara, Baloon Factory Road and Abu Bakker Masjid Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division												
67	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.15 item No.3.4.2 b PRED SR 2012-13. - 75 mm dia 6 KSC PVC pipe											
	Thanisandra temple road											
				1.00	65.00						65.00	
	Thanisandra Ashwath Nagar											
				1.00	75.00						75.00	
	Thanisandra 900ft											
				1.00	55.00						55.00	
	Thanisandra 1000ft											
				1.00	53.00						53.00	
	Maruthi Samill Road											
				1.00	57.00						57.00	
	Rachenahalli village											
				1.00	54.00						54.00	
	Rachenahalli memos restaurant											
				1.00	58.00						58.00	
	Samill furniture Shop											
				1.00	63.00						63.00	
									Total		**480.00**	**Rmtr**

Consultant

Assistant Engineer

Assistant Executive Engineer

197

Bruhat Bengaluru Mahanagara Palike											
Bytarayanapura Division											
Job Code :- 006-18-000097.											
Name of Agency :- Benaka Developers & Project Pvt.Ltd.											
Bill No :-1st & Part Bill											
Name Of work : - Improvement to Roads and Drains at Bharathnagara, Baloon Factory Road and Abu Bakker Masjid Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division											
68	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs Page No. 3 / Item No. 1.6 / PRED SR 2012-13										
	Qty. Vide Item No. 66									216.00	
								Total		**216.00**	**Cum**

Consultant

Assistant Engineer

Assistant Executive Engineer

198

Bruhat Bengaluru Mahanagara Palike											
Bytarayanapura Division											
Job Code :- 006-18-000097.											
Name of Agency :- Benaka Developers & Project Pvt.Ltd.											
Bill No :-1st & Part Bill											
Name Of work : - Improvement to Roads and Drains at Bharathnagara, Baloon Factory Road and ... Bakker Masjid Road in Ward No.06(Thanisandra), Byatarayanapura Sub Division											
69	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 P. 92 / I.13.37 PWD SR - 2016-17										
	Thanisandra temple road										
				2.00						2.00	
	Thanisandra Ashwath Nagar										
				2.00						2.00	
	Thanisandra 900ft										
				2.00						2.00	
	Thanisandra 1000ft										
				2.00						2.00	
	Maruthi Samill Road										
				2.00						2.00	
	Rachenahalli village										
				2.00						2.00	
	Rachenahalli memos restaurant										
				2.00						2.00	
	Samill furniture Shop										
				2.00						2.00	
								Total		**16.00**	**Each**

TEJUS CONSULTANTS Consultant

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

4/9/18

Assistant Engineer

ಸಹಾಯಕ ಇಂಜಿನಿಯರ್
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

04/09/18

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : -Improvement of Drains and Asphalting to Road at Amarajoythi Layout Main Road Left and Right Side Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

34	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (P.48, I. 9.4) PRED.SR 2012-13												
	Sabarinagar 2nd Cross												
				1.00							1.00		
	Sabarinagar 3rd Cross												
				1.00							1.00		
	Hegdenagar BBMP Ofc												
				1.00							1.00		
	Hegdenagar 7th Cross												
				1.00							1.00		
	Noor Majjid road Anjandri Layout												
				1.00							1.00		
									Total		**5.00**		**each BW**

Consultant

Assistant Engineer 7/9/18

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer 7/9/18

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEJAS CONSULTANTS

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. * BANGALORE *

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : -Improvement of Drains and Asphalting to Road at Amarajoythi Layout Main Road Left and Right Side Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

35	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) P. 46 / I. 9.1 PRED SR 2012-13 - 0 to 50m										
	Sabarinagar 2nd Cross										
	0 to 50 m		1.00	50.00					50.00		
	Sabarinagar 3rd Cross										
	0 to 50 m		1.00	50.00					50.00		
	Hegdenagar BBMP Ofc										
	0 to 50 m		1.00	50.00					50.00		
	Hegdenagar 7th Cross										
	0 to 50 m		1.00	50.00					50.00		
	Noor Majjid road Anjandri Layout										
	0 to 50 m		1.00	50.00					50.00		
								Total	**250.00**	**Rmtr**	

Consultant

Assistant Engineer 7/9/18

Assistant Executive Engineer 07/09/18

ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು

ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : -Improvement of Drains and Asphalting to Road at Amarajoythi Layout Main Road Left and Right Side Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

65	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum-control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. 12.5HP to 15 HP Star Delta Starter												
	Sabarinagar 2nd Cross												
				1.00							1.00		
	Hegdenagar BBMP Ofc												
				1.00							1.00		
	Hegdenagar 7th Cross												
				1.00							1.00		
									Total		**3.00**		**No**

TEJUS CONSULTANTS

Consultant

Assistant Engineer

Assistant Executive Engineer

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. * BANGALORE *

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : -Improvement of Drains and Asphalting to Road at Amarajoythi Layout Main Road Left and Right Side Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

66	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil										
	Sabarinagar 2nd Cross										
				1.00	65.00			0.60	0.75	29.25	
	Hegdenagar BBMP Ofc										
				1.00	50.00			0.60	0.75	22.50	
	Hegdenagar 7th Cross										
				1.00	70.00			0.60	0.75	31.50	
								Total		**83.25**	**Cum**

Consultant

7/9/18

Assistant Engineer

Assistant Executive Engineer

07/09/18

ಬ.ಬ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಬ.ಬ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 006-18-000097.

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Bill No :-1st & Part Bill

Name Of work : -Improvement of Drains and Asphalting to Road at Amarajoythi Layout Main Road Left and Right Side Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

67	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.15 item No.3.4.2 b PRED SR 2012-13. - 75 mm dia 6 KSC PVC pipe											
	Sabarinagar 2nd Cross											
				1.00	65.00					65.00		
	Hegdenagar BBMP Ofc											
				1.00	50.00					50.00		
	Hegdenagar 7th Cross											
				1.00	70.00					70.00		
									Total	**185.00**	**Rmtr**	

Consultant

Assistant Engineer 7/9/18

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer 07/09/18

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. * BANGALORE *

Bruhat Bengaluru Mahanagara Palike											
Bytarayanapura Division											
Job Code :- 006-18-000097.											
Name of Agency :- Benaka Developers & Project Pvt.Ltd.											
Bill No :-1st & Part Bill											
Name Of work : -Improvement of Drains and Asphalting to Road at Amarajoythi Layout Main Road Left and Right Side Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division											
68	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs Page No. 3 / Item No. 1.6 / PRED SR 2012-13										
	Qty. Vide Item No. 66									83.25	
								Total		**83.25**	**Cum**

Consultant

Assistant Engineer

Assistant Executive Engineer

Bruhat Bengaluru Mahanagara Palike											
Bytarayanapura Division											
Job Code :- 006-18-000097.											
Name of Agency :- Benaka Developers & Project Pvt.Ltd.											
Bill No :-1st & Part Bill											
Name Of work : -Improvement of Drains and Asphalting to Road at Amarajoythi Layout Main Road Left and Right Side Cross Roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division											
69	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 P. 92 / I.13.37 PWD SR - 2016-17										
	Thanisandra temple road										
				2.00						2.00	
	Hegdenagar BBMP Ofc										
				2.00						2.00	
	Hegdenagar 7th Cross										
				2.00						2.00	
								Total		**6.00**	**Each**

TEJAS CONSULTANTS
Consultant

Assistant Engineer
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

BENAKA DEVELOPERS AND PROJECTS PVT LTD. BANGALORE